

**PAT-NO:** JP402024283A  
**DOCUMENT-IDENTIFIER:** JP 02024283 A  
**TITLE:** MOTORCYCLE HAVING ENGINE WITH SUPERCHARGER  
**PUBN-DATE:** January 26, 1990

**INVENTOR-INFORMATION:**

**NAME** **COUNTRY**  
NONOGAKI, YOSHIAKI

**ASSIGNEE-INFORMATION:**

**NAME** **COUNTRY**  
YAMAHA MOTOR CO LTD N/A

**APPL-NO:** JP63172323

**APPL-DATE:** July 11, 1988

**INT-CL (IPC):** B62J039/00 , B62M007/02 , F01P003/18 , F02B029/04 , F02B033/44

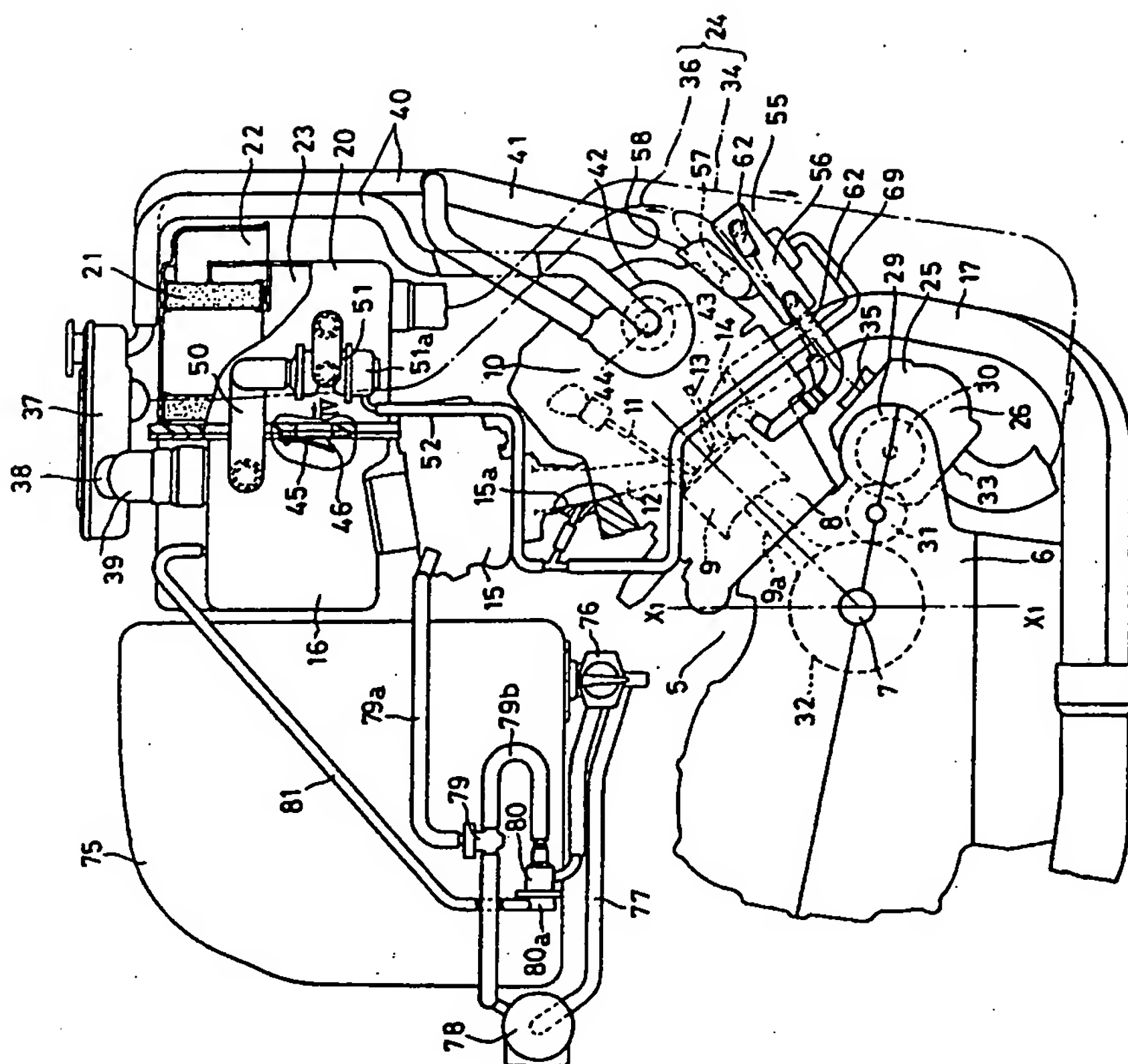
**US-CL-CURRENT:** 123/559.1

**ABSTRACT:**

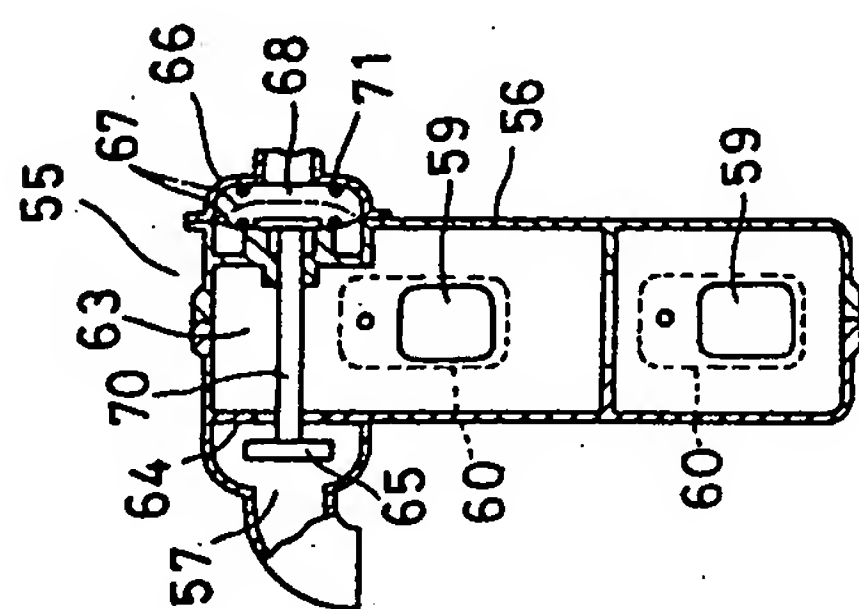
**PURPOSE:** To improve supercharging efficiency by inclining a cylinder head forward, arranging a vertical draft type carburetor and an air cleaner up and down on the upper portion thereof, and providing a supercharger on the intake pipe line thereof while providing a water-cooled type intercooler on the lower course side of the supercharger.

**CONSTITUTION:** Since an intercooler 37 and a carburetor 15 are placed in close vicinity to each other on both upper and lower sides across an air cleaner 20, the whole length of the lower course portion 39 of a lower course side intake pipe 36 connecting the intercooler 37 and carburetor 15 can be reduced, enabling intake air cooled by the intercooler 37 to be fed to the carburetor 15 through the shortest distance. Further, since the air cleaner 20 and a surge tank 16 are installed between the intercooler 37 and an engine 5, the heat of the engine 5 transferred to the intercooler 37 side is interrupted thereby, to suppress the effect of heat of the engine 5 to the intercooler 37, enabling the supercharger 25 to carry out supercharging with high efficiency.

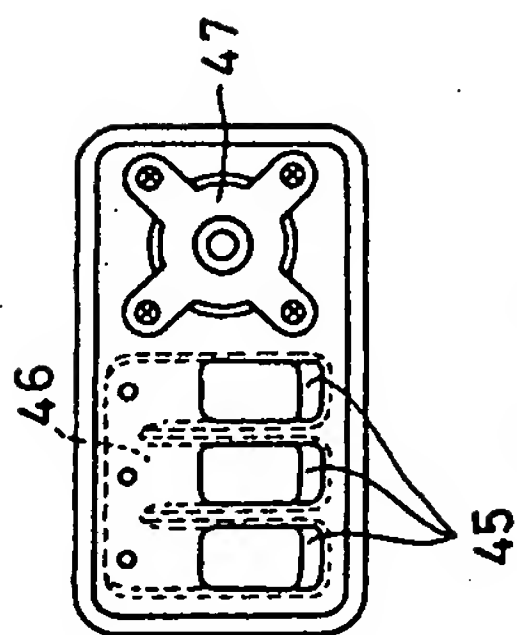
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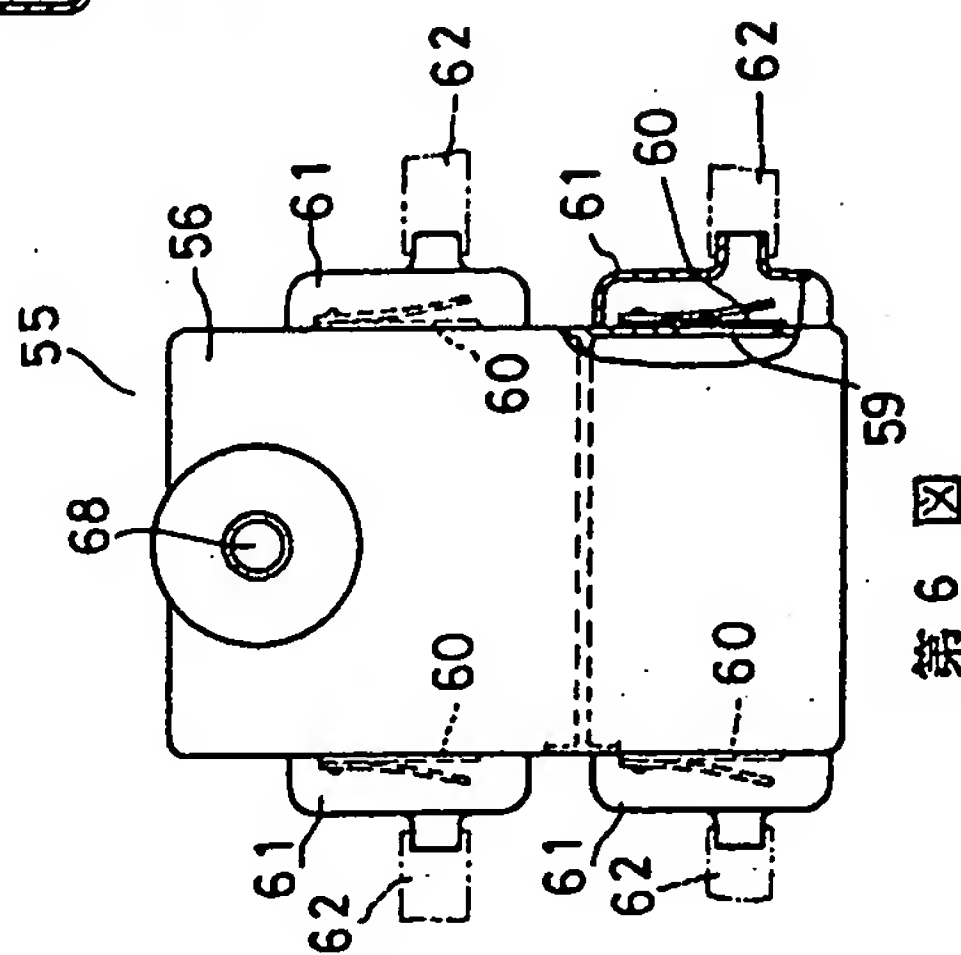
第 2 図



第 5 図



第 4 図



第 6 図